

FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. <b>03500.015727.1</b>		APPLICATION NO. <b>NYA</b>	
				APPLICANT <b>TAKEO TSUKAMOTO</b>			
				FILING DATE <b>FILED HEREWITH</b>		GROUP <b>2821</b>	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,624,589	9/03	Kitamura et al.	315	169.3	
		6,628,053	9/03	Den et al.	313	310	
		6,626,719	9/03	Ono et al.	445	24	
		2002/0060516 A1	5/02	Kawate et al.	313	495	
		2002/0031972 A1	3/02	Kitamura et al.	445	3	
		2002/0057045 A1	5/02	Tsukamoto	313	309	
		2002/0047513 A1	4/02	Nomura	313	495	
		2003/0006684 A1	1/03	Kawate et al.	313	311	
		2003/0048055 A1	3/03	Ishikura et al.	313	311	
		2003/0057860 A1	3/03	Tsukamoto	315	169.3	
		6,087,765	7/00	Coll et al.	313	309	
		5,872,422	2/16/99	Xu et al.	313	311	
		2002/0009637	1/02	Murakami et al.	429	213	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
		WO 01/93292	12/01	PCT			
		10-149760	6/98	JAPAN			ABSTRACT
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
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				APPLICANT <b>TAKEO TSUKAMOTO</b>			
				FILING DATE <b>FILED HEREWITH</b>		GROUP <b>2817</b>	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,728,851	3/88	Lambe	313	309	
		4,904,895	2/90	Tsukamoto et al.	313	336	
		5,986,389	11/99	Tsukamoto	313	309	
		6,147,449	11/00	Iwasaki et al.	313	495	
		6,171,162	1/01	Iwasaki et al.	445	6	
		6,184,610	2/01	Shibata et al.	313	309	
		6,231,413	5/01	Tsukamoto	445	24	
		6,246,168	6/01	Kishi et al.	313	495	
		6,288,494	9/01	Tsukamoto et al.	315	169.1	
		5,982,091	11/99	Konishi	313	495	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
		0 614 209 A1	9/94	EPO			
		8-115652	5/96	JAPAN			ABSTRACT
		7-6714	1/95	JAPAN			
		0 290 026	11/88	EPO			ENGLISH
		0 535 953 A2	4/93	EPO			ENGLISH
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
		<b>C.A. Spindt et al., Physical Properties of thin-Film Field Emission Cathodes with Molybdenum Cones, Journal of Applied Physics, Vol. 47, No. 12 (1976) pp.5248-5263</b>					
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,773,921	06/30/98	Keesman et al.	313	309	
		5,973,444	10/26/99	Xu et al.	313	309	
		5,935,639	8/10/99	Sullivan et al.	427	78	
		4,956,578	9/11/90	Shimizu et al.	315	3	
		5,185,554	2/9/93	Nomura et al.	313	495	
		6,448,709	9/02	Chuang et al.	313	497	
		6,204,597	03/01	Xie et al.	313	310	

  

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
		WO 89/07163	08/10/89	Japan			English
		WO 90/07023	06/28/90	PCT			English
		JP 08-115652	05/07/96	Japan			Abst. & Transl.

  

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	R.T.K. Baker et al., "Formation of Carbonaceous Deposits from the Platinum-Iron Catalyzed Decomposition of Acetylene," 37 J. Catal. 101-105 (1975).
	R.T.K. Baker, "Catalytic Growth of Carbon Filaments," 27 (3) Carbon 315-323 (1989).
	S. Iijima, "Helical Microtubules of Graphitic Carbon," Nature, Vol. 345, 56-58 (1991).
	T. W. Ebbesen et al., "Large-Scale Synthesis of Carbon Nanotubes," Nature, Vol. 358, 220-222 (1992).
	W. A. DeHeer et al., "Aligned Carbon Nanotube Films: Production and Optical and Electronic Properties," Science Vol. 268, 845-847 (1995).

  

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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,577,943	11/96	Vickers et al.	445	24	
	2002/136896	09/26/00	Takikawa et al.	428	408	
	5,192,240	03/09/93	Komatsu	445	24	
	5,214,346	05/25/93	Komatsu	313	309	
	5,382,867	01/17/95	Maruo et al.	313	309	
	5,612,587	03/18/97	Itoh et al.	313	309	
	6,313,572	11/06/01	Yamada	313	310	

  

FOREIGN PATENT DOCUMENTS						
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT	
0 758 028 A2	02/12/97	EPO	D01F	9/127	English	
WO 98/05920	02/12/98	PCT	G01B	7/34	English	
0 394 698 A2	10/31/90	EPO	H01J	1/30	English	
2000/277003	06/10/00	Japan	H01J	9/02	No	

  

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	T. Guo et al., "Catalytic Growth of Single- Walled Nanotubes by Laser Vaporization," Chem Phys. Lett., Vol. 243, 49-54 (1995).
	A. G. Rinzler et al., "Unraveling Nanotubes: Field Emission from an Atomic Wire," Science, Vol. 269, 1550-1553 (1995).
	W. A. DeHeer et al., "A Carbon Nanotube Field-Emission Electron Source," Science, Vol. 270, 1179-1180 (1995).
	T. Kyotani et al., "Preparation of Ultrafine Carbon Tubes in Nanochannels of an Anodic Aluminum Oxide Film," Chem. Mater., Vol. 8, 2109-2113 (1996).
	A. Thess et al., "Crystalline Ropes of Metallic Carbon Nanotubes," Science, Vol. 273 483-487 (1996).

  

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,135,839	10/24/00	Iwase et al.	445	24	
		2002/0031972	3/02	Kitamura et al.	445	3	
		6,400,091	6/02	Deguchi et al.	315	169.1	
		6,420,726	7/02	Choi et al.	257	10	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
		0 797 233 A2	09/24/97	EPO	H01J	1/30	English
		0 980 089 A1	02/16/00	EPO	H01J	1/30	English
		0 986 084 A2	03/15/00	EPO	H01J	1/30	English
		1 117 118 A1	07/08/01	EPO	H01J	1/312	English
		0 716 439	06/12/96	EPO	H01J	3/02	English
		1 113 478 A1	7/01	EPO			
		2-112125	04/24/90	JAPAN	H01J	1/30	Abst. & corresponding U.S. Patent 4,956,578
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		H. Dai et al., "Single-Wall Nanotubes Produced by Metal-Catalyzed Disproportionation of Carbon Monoxide," Chem. Phys. Lett., Vol. 260, 471-475 (1996).					
		H. Dai et al., "Nanotubes as Nanoprobes in Scanning Probe Microscopy," Nature, Vol. 384, 147-150 (1996).					
		A. C. Dillon et al., "Storage of Hydrogen in Single- Walled Carbon Nanotubes," Nature, Vol.386, 377-379 (1997).					
		W.P. Dyke et al., "Field Emission", <i>Advances in Electronics and Electron Physics</i> , Vol. 8, (1956) pp. 89-185					
		C.A. Spindt et al., "Physical Properties of Thin-Film Field Emission Cathodes with Molybdenum Cones", <i>Journal of Applied Physics</i> , Vol. 47, No. 12 (1976), pp. 5248-5263					
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
		<b>3-20941</b>	<b>01/29/91</b>	<b>JAPAN</b>	<b>H01J</b>	<b>31/12</b>	<b>Abst. &amp; corresponding U.S. Patent 5,185,554</b>
		<b>5-211029</b>	<b>08/20/93</b>	<b>JAPAN</b>	<b>H01J</b>	<b>1/30</b>	<b>No</b>
		<b>8-264109</b>	<b>10/11/96</b>	<b>JAPAN</b>	<b>H01J</b>	<b>1/30</b>	<b>Abst.</b>
		<b>9-82214</b>	<b>3/28/97</b>	<b>JAPAN</b>	<b>H01J</b>	<b>1/30</b>	<b>Abst. &amp; European Equivalent 0 716 439</b>
		<b>1 113 478 A1</b>	<b>7/02</b>	<b>EPO</b>			
		<b>1 122 344 A3</b>	<b>8/01</b>	<b>EPO</b>			
		<b>A0 913 508</b>	<b>05/06/99</b>	<b>EPO</b>	<b>D01F</b>	<b>9/127</b>	<b>English</b>
		<b>09-188600</b>	<b>07/22/97</b>	<b>Japan</b>	<b>C30B</b>	<b>29/62</b>	<b>Abst.</b>
		<b>A1 443 865</b>	<b>08/28/91</b>	<b>EPO</b>	<b>H01J</b>	<b>21/10</b>	<b>English</b>
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
		<b>C.A. Mead, "Operation of Tunnel-Emission Devices", <i>Journal of Applied Physics</i>, Vol. 32, No. 4, (1961), pp. 646-652</b>					
		<b>Toshiaki Kusunoki et al., "Fluctuation-Free Electron Emission from Non-Formed Metal-Insulator-Metal (MIM) Cathodes Fabricated by Low Current Anodic Oxidation", <i>Japanese Journal of Applied Physics</i>, Vol. 32 No. 11B, (1993), p. L1695-1697</b>					
		<b>M.I. Elinson et al., "The Emission of Hot Electrons and the Field Emission of Electrons from Tin Oxide", <i>Radio Engineering and Electronic Physics</i>, (1965) pp. 1290-1296</b>					
		<b>G. Dittmer, "Electrical Conduction and Electron Emission of Discontinuous Thin Films", <i>Thin Solid Films</i>, Vol. 9, (1972) pp. 317-329</b>					
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		<b>2001/0006232 A1</b>	<b>7/01</b>	<b>Choi et al.</b>			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
		<b>04-212236</b>	<b>03/08/92</b>	<b>Japan</b>	<b>H01J</b>	<b>1/30</b>	<b>No</b>
		<b>03-295131</b>	<b>12/26/91</b>	<b>Japan</b>	<b>H01J</b>	<b>1/30</b>	<b>No</b>
		<b>A2 535 953</b>	<b>04/07/93</b>	<b>EPO</b>	<b>H01J</b>	<b>1/30</b>	<b>English</b>
		<b>05-159696</b>	<b>06/25/93</b>	<b>Japan</b>	<b>H01J</b>	<b>1/30</b>	<b>No</b>
		<b>05-198253</b>	<b>08/06/93</b>	<b>Japan</b>	<b>H01J</b>	<b>1/30</b>	<b>No</b>
		<b>05-274997</b>	<b>10/22/93</b>	<b>Japan</b>	<b>H01J</b>	<b>1/30</b>	<b>Abst.</b>
		<b>11-232997</b>	<b>08/27/99</b>	<b>Japan</b>	<b>H01J</b>	<b>1/30</b>	<b>No</b>
		<b>A1 936 650</b>	<b>08/18/99</b>	<b>EPO</b>	<b>H01J</b>	<b>3/02</b>	<b>English</b>
		<b>10-289650</b>	<b>10/27/98</b>	<b>Japan</b>	<b>H01J</b>	<b>1/30</b>	<b>No</b>
		<b>A1 871 195</b>	<b>10/14/98</b>	<b>EPO</b>	<b>H01J</b>	<b>1/30</b>	<b>English</b>
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
		<b>M. Hartwell et al., "Strong Electron Emission from Patterned Tin-Indium Oxide Thin Films", IEEE Trans. Ed. Conf., (1983) pp.519-521</b>					
		<b>Hisashi Araki et al., "Electroforming and Electron Emission of Carbon Thin Films, Journal of the Vacuum Society of Japan, 1983 (with English Abstract on p. 22)</b>					
		<b>Rodriguez et al., "Catalytic Engineering of Carbon Nanostructures," Langmuir 11, 3862-3866 (1995).</b>					
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	5,847,495	12/98	Yamanobe et al.	313	310	
	5,066,883	11/91	Yoshioka et al.	313	309	
	6,455,021 B1	09/02	Saito	423	447.3	07/20/99
	6,471,936 B1	10/02	Chen et al.	423	658.2	03/02/00
	6,283,812 B1	09/01	Jin et al.	445	24	01/25/99
	4,816,289	03/89	Komatsu et al	423	447.3	
	5,443,859	08/95	Nagata	427	122	
	5,618,875	04/97	Baker et al.	524	495	
	5,690,997	11/97	Grow	427	249	
	6,129,602	10/00	Yamanobe	445	24	
	6,228,904 B1	05/01	Yadav et al.	523	210	
	6,333,016 B1	12/01	Resasco et al.	423	447.3	9/3/99
	6,413,487 B1	07/02	Resasco et al.	423	447.3	6/2/00
	6,445,006 B1	09/02	Brandes et al.	257	76	7/27/99
	5,981,305	11/99	Hattori	438	20	
	6,290,564 B1	9/01	Talin et al.	445	50	9/30/99
	5,458,784	10/95	Baker et al.	210	674	5/3/00
	6,331,690 B1	12/01	Yudasaka et al.	219	121.6	
	5,965,267	10/99	Nolan et al.	428	408	
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	6,390,612 B1	05/02	Kotaki et al.	347	85	
	5,872,541	02/99	Yoshioka et al.	345	74	
	5,543,684	08/96	Kumar et al.	313	495	
	5,551,903	9/96	Kumar et al.	445	24	
	4,900,483	2/90	Witzke et al.	264	29.2	
	5,500,200	3/96	Mandeville et al.	423	447.3	
	5,726,524	3/98	Debe	313	309	
	2002/0009637 A1	1/24/02	Murakami et al	429	213	2/5/01
	2002/0047562 A1	04/25/02	Kitamura et al.	315	169.3	05/29/01
	5,770,918	6/98	Kawate et al.	313	495	
	5,185,554	2/93	Nomura et al.	313	495	
	2002/0146958 A1	10/02	Ono et al.	445	24	
	2003/0048056 A1	3/03	Kitamura et al.	313	311	
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	11-194134	07/99	Japan	G01N	37/00	Abst., European Equivalent 0 913 508 A3
	11-139815	05/99	Japan	C01B	31/02	Abst.
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	1 122 344 A2	08/01	EPO	D01F	9/127	English
	0 758 028 B1	09/11/02	EPO	D01F	9/127	English
	11-232997	08/27/99	Japan	H01J	1/30	European Counterpart 0 936 650
	1 022 763 A1	7/00	EPO	H01J	9/02	English
	2000-223005	8/00	Japan	H01J	1/304	Abst. & Counterpart U.S. Patent 6,283,812
	0 836 217 A1	04/98	EPO	H01J	29/94	English
	WO 99/58748	11/99	PCT	D01F	9/127	English
	CN 1181607A	5/98	China			English Counterparts 0 836 217 & 99/58748
	1 102 299 A1	5/01	EPO	H01J	1/30	English
	0 913 508 A3	5/99	EPO	D01F	9/127	English
	1 096 533 A1	5/01	EPO	H01J	9/02	English
	WO 01/26130	4/01	PCT	H01J	9/02	English
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FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)			ATTY DOCKET NO. <b>03500.015727.1</b>		APPLICATION NO. <b>NYA</b>		
			APPLICANT <b>TAKEO TSUKAMOTO</b>				
			FILING DATE <b>FILED HEREWITH</b>		GROUP <b>2821</b>		
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
		1-309242	12/89	Japan	H01J	37/06	Abst.
		11-162334	6/99	JAPAN	H01J	9/02	Abst.
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		FILING DATE <b>FILED HEREWITH</b>		GROUP <b>2821</b>	
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)					
		<b>W. Zhu Et Al., <i>Electron Field Emission From Nanostructured Diamond and Carbon Nanotubes</i>, Solid State Electronics, Vol. 45, 2001, pp. 921-928</b>			
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